

Kilbourne & Jacobs Manufacturing Co.
Columbus, Ohio.
in the 1897 catalog of
L.M. Rumsey Manufacturing Co.
St. Louis, Missouri

BARREL TRUCKS.

NEW YORK PATTERN.

**Plate 800.**

Steel Nose Side Straps and Cross Bars. Steel Axle.

	Length of Handle	Width at Nose	Width at Upper Bar	Wheel	Weight	Price
No. 1	4 ft. 0 in.	13 in.	16 in.	6 diam., 1½ tread	50	\$ 7 00
No. 2	4 ft. 5 in.	14¾ in.	19½ in.	6¾ diam., 2 tread	65	9 50
No. 3	4 ft. 7 in.	15¾ in.	21¼ in.	7¾ diam., 2½ tread	92	10 00
No. 4	4 ft. 11 in.	16 in.	21¼ in.	8¾ diam., 2¾ tread	100	12 00
No. 5	5 ft. 4 in.	17½ in.	22¾ in.	10¼ diam., 2¾ tread	120	13 00

For all iron slats, add \$1.00 to list.

These Trucks are made of the best selected hickory, oak or ash lumber. Bolts pass through straps, tenons and handles. Axles turned, wheels bored, and all parts made in the most approved way. Finished with best agricultural coach varnish. Iron parts blacked.

No. 3.

BAG TRUCKS.

WITH BENT PLOW HANDLES.

No. 1.

**Plate 801.**

No. 1. Length of handle, 42 inches; width at nose, 11¼ inches; width at upper bar, 16¾ inches. Axle, 7/8 inch square. No. 35 wheel, 6 x 1½ inches. Weight, 29 pounds.

No. 3. Length of handle, 48 inches; width at nose, 15 inches; width at upper bar, 20½ inches. Axle, 1 inch square. Wheel 6¾ x 2 inches. Weight, 58 pounds.

No. 1	\$5 00
No. 3	9 00

**Plate 802.**

**Plate 803.**

FULL STRAPPED.

BARREL TRUCKS.**BOSTON PATTERN.**

Steel Nose, Side Straps and Cross Bars. Steel Axle.

	Length of Handles	Width at Nose	Width at Upper Bar	Wheel, Dia.	Tread	Weight	Price
No. 1.	4 ft. 2 in.	12 in.	18 in.	6 $\frac{7}{8}$	2	54	\$ 8 50
No. 2.	4 ft. 6 in.	13 $\frac{1}{2}$ in.	19 in.	7 $\frac{3}{4}$	2 $\frac{1}{2}$	65	11 00
No. 3.	4 ft. 9 in.	14 $\frac{3}{4}$ in.	20 $\frac{1}{2}$ in.	8 $\frac{3}{4}$	2 $\frac{3}{4}$	96	13 50
No. 4.	5 ft. 6 in.	15 $\frac{1}{4}$ in.	21 $\frac{3}{4}$ in.	10 $\frac{3}{4}$	2 $\frac{3}{4}$	105	16 50
No. 5.	6 ft. 1 in.	15 $\frac{1}{2}$ in.	23 $\frac{1}{2}$ in.	12	2 $\frac{7}{8}$	128	20 00

For all Iron Slats add \$1.00 to list.

These Trucks are made of the best selected hickory, oak or ash lumber. Bolts pass through straps, tenons and handles. Axles turned, Wheels bored, and all parts made in the most approved way. Finished with best agricultural coach varnish. Iron parts blacked.

HALF STRAPPED.

**Plate 805.****STORE AND WAREHOUSE TRUCKS****BOSTON PATTERN.**

These Trucks are made of the best selected hickory, oak, or ash lumber. Bolts pass through straps, tenons, and handles. Axle and Collar forged from a single piece of wrought steel by special machinery. Legs braced, Axles turned, Wheels bored, and all parts made in the most approved way. Wood finished with best agricultural coach varnish, and iron parts blacked.

**Plate 804.**

Steel Nose and Side Straps. Steel Axles.

	Length of Handle	Width at Nose	Width at Upper Bar	Diameter of Wheel	How strapped	Weight, Pounds	Price
No. 1	4 ft. 2 in.	12 in.	18 in.	6 $\frac{7}{8}$ in.	Half strapped	43	\$ 6 50
No. 1	4 ft. 2 in.	12 in.	18 in.	6 $\frac{7}{8}$ in.	Full strapped	48	7 50
No. 2	4 ft. 6 in.	13 in.	19 in.	7 $\frac{3}{4}$ in.	Half strapped	55	8 50
No. 2	4 ft. 6 in.	13 in.	19 in.	7 $\frac{3}{4}$ in.	Full strapped	60	10 00
No. 3	4 ft. 9 in.	14 $\frac{3}{4}$ in.	20 $\frac{1}{2}$ in.	8 $\frac{3}{4}$ in.	Half strapped	85	11 00
No. 3	4 ft. 9 in.	14 $\frac{3}{4}$ in.	20 $\frac{1}{2}$ in.	8 $\frac{3}{4}$ in.	Full strapped	90	12 50
No. 4	5 ft. 6 in.	15 in.	21 $\frac{3}{4}$ in.	10 $\frac{3}{4}$ in.	Full strapped	98	15 50
No. 5	6 ft. 1 in.	15 $\frac{1}{8}$ in.	23 $\frac{3}{4}$ in.	12 in.	Full strapped	120	18 50
No. 6	6 ft. 4 in.	16 $\frac{1}{4}$ in.	25 in.	12 in.	Full strapped	135	24 00

Boston Pattern Trucks, Wheels inside, 10 per cent advance over above prices.

HOTEL TRUCKS.

WITH RUBBER BANDED WHEELS.

BENT HANDLE HOTEL.



Plate 806.

BAR HANDLE HOTEL
OR CARPET TRUCKS.

For Hotels, Carpet Stores, etc. Three Curved Steel Cross Bars.



Plate 807.

Axles turned and Wheels bored; Steel Nose and Steel Axle.

	How Ironed	Length of Handle	Width	Diameter of Wheel	Weight	Price
No. 1	Half	3 ft. 8 in.	18 in.	6 in.	40 lbs.	\$ 10 00
No. 1	Full	3 ft. 8 in.	18 in.	6 in.	46 lbs.	11 00
No. 2	Half	4 ft. 3 in.	20 in.	8½ in.	51 lbs.	14 00
No. 2	Full	4 ft. 3 in.	20 in.	8½ in.	58 lbs.	15 00
Plate 807	Full	3 ft. 4 in.	14 in.	6 in.	37 lbs.	12 00

These Trucks are made of the best second growth ash or oak lumber. Bolts pass through iron, tenons, and handles.

TRUNK CARRIER.

WITH RUBBER BANDED WHEELS.

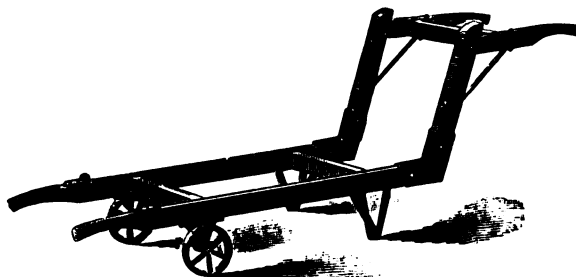


Plate 808.

For carrying trunks, boxes, etc., up or down stairs or steps. Very convenient for hotels, colleges, etc. Size, 21 inches wide by 76 inches long; height, 8 inches; Wheels, 6 inches in diameter, 1 inch face, ⅝ inch bore; weight, 50 pounds. Wheels can be attached to either end, as desired, but made regularly as shown in cut. Price, each, \$20.00.

WAREHOUSE AND STORE TRUCKS.

HALF IRONED.

WESTERN PATTERN.

FULL IRONED.



These Trucks are made of the best second growth hickory, ash or oak lumber, hickory being mostly used for handles. Bolts pass through iron, tenons and handles. All iron parts are heavier than ordinarily used. Axle and collar forged from one piece by special machinery.

Axles turned and Wheels bored. Steel Nose and Side Straps. Steel Axles. Steel Legs.

**Plate 809.**

	Length of Handle
No. 0	3 ft. 6 in.
No. 0	3 ft. 6 in.
No. 1	3 ft. 11 in.
No. 1	3 ft. 11 in.
No. 2	4 ft. 4 in.
No. 2	4 ft. 4 in.
No. 3	4 ft. 8 in.
No. 3	4 ft. 8 in.

Width
19 in.
19 in.
19 in.
19 in.
20 in.
20 in.
22 in.
22 in.

Diameter of Wheel
6 $\frac{7}{8}$ in.
6 $\frac{7}{8}$ in.
6 $\frac{7}{8}$ in.
6 $\frac{7}{8}$ in.
7 $\frac{3}{4}$ in.
7 $\frac{3}{4}$ in.
8 $\frac{3}{4}$ in.
8 $\frac{3}{4}$ in.

Kind
Half ironed
Full ironed
Half ironed
Full ironed
Half ironed
Full ironed
Half ironed
Full ironed

Plate 810.

Weight
42 lbs.
49 lbs.
44 lbs.
50 lbs.
56 lbs.
66 lbs.
77 lbs.
87 lbs.

Price
\$6 00
7 00
7 00
8 00
9 00
10 50
13 00
15 00

RAILROAD AND PACKING HOUSE TRUCKS.

WESTERN PATTERN.

RAILROAD AND PACKING HOUSE.

EXTRA IRONED RAILROAD, CENTER STRAP WELDED TO NOSE.

**Plate 811.**

	Length of Handle
No. 4	5 ft.
No. 4 Extra	5 ft.
No. 5	5 $\frac{1}{2}$ ft.

Width
24 in.
24 in.
25 in.

Diameter of Wheel
10 $\frac{3}{4}$ in.
10 $\frac{3}{4}$ in.
12 in.

These Trucks are made of the best selected second growth hickory, ash or oak lumber; hickory being mostly used for handles. Iron on cross pieces extends through to outside of handles, with bolts passing through iron, tenons and handles. All iron parts are heavier than ordinarily used. Axles and collars forged from one piece by special machinery. All parts made in the most substantial manner, and will stand the roughest usage. Extra heavy, full ironed, handle and cross-straps bolted through handles, axles turned and wheels bored. Steel nose and side straps; steel axles. No. 4 Extra has center strap welded to nose iron.

**Plate 812.**

Weight
120 lbs.
126 lbs.
150 lbs.

Price
\$20 00
22 00
24 00

STEAMBOAT TRUCK.

STEEL NOSE, STRAPS AND CROSS BARS, STEEL AXLE.

Length of handle, 5 feet; wheels, 12 inches in diameter, 3 inch face; nose, 9 inches long; width at nose, 17 inches; width at upper bar, 21 inches; axle, $1\frac{1}{4}$ inches square. Weight, 140 pounds.

Price \$26 00



Plate 813.



Plate 814.

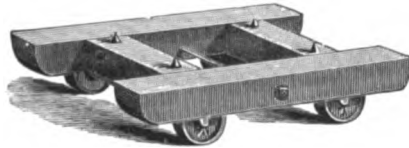
FEED TRUCK.

STEEL DASH.

The Wheels are set on Truck so that it is evenly balanced on Axle, and the largest load can be handled with ease. Heavily ironed. Best selected lumber. Bolts pass through Iron, Tenons and Handles. Handles well braced. Axles turned. Wheels bored.

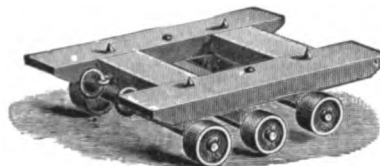
Length of handles, 6 feet 4 inches; width, 28 inches; height from floor, $17\frac{1}{2}$ inches; nose, 6 inches long; wheels, 14 inches in diameter, $2\frac{3}{8}$ inch face. Weight, 178 pounds.

Price \$30 00

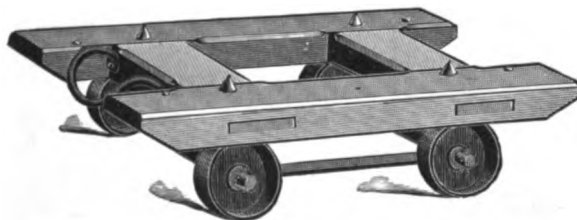
BOX TRUCKS.**Nos. 1 AND 2 TRUCKS.****Plate 815.**

Also furnished with Rubbered Wheels.

A low Truck, strong and well made, for handling large boxes or bales. Sharp cone-head bolts to prevent package from slipping. Axles turned and Wheels bored.

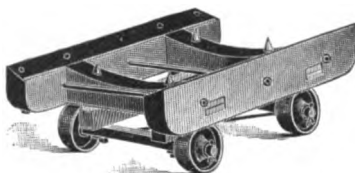
Nos. 3 AND 4. SIX-WHEEL BOX TRUCK.**Plate 816.**

Balanced on Center Wheels, which are set lower than end Wheels, so that Truck turns easily in any direction without injuring floor. Wood Bolsters between frame and axles. Axles turned and Wheels bored.

No. 5. BRACED BOX TRUCK.**Plate 817.**

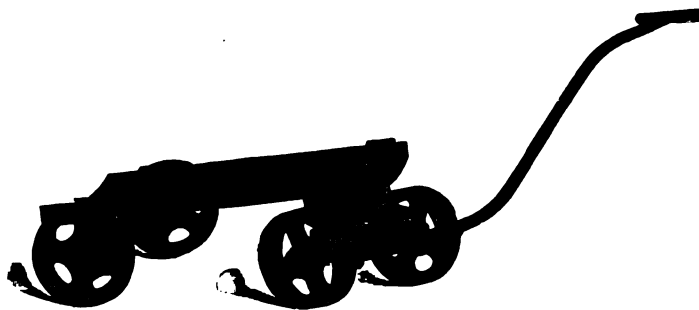
Extra iron braced between Axles. Hard wood, well made and finished. Axles turned and Wheels bored.

	Width	Length	Wheel	Weight	Price
No. 1	18 in.	18 in.	4 x $1\frac{3}{8}$ in.	28 lbs.	\$ 5 00
No. 2	18 in.	26 in.	4 x $1\frac{3}{8}$ in.	36 lbs.	6 00
No. 3, Six Wheel	16 in.	24 in.	$3\frac{1}{4}$ x $2\frac{1}{4}$ in.	45 lbs.	8 00
No. 4, Six Wheel	22 in.	36 in.	$3\frac{1}{4}$ x $2\frac{1}{4}$ in.	70 lbs.	10 00
No. 5, Braced	16 in.	24 in.	4 x $1\frac{3}{8}$ in.	34 lbs.	9 00

TOBACCO TRUCK.**Plate 818.**

For handling tobacco in hogsheads and large casks, etc. Full ironed on top. Axles cross-braced. Frame $27\frac{1}{2}$ inches long by $19\frac{1}{2}$ inches wide. Side Rails, $4\frac{1}{2} \times 2\frac{1}{2}$ inches, and $9\frac{1}{4}$ inches high. Wheels, $4\frac{5}{8}$ inches in diameter by 2 inch face. Axles turned and Wheels bored. Weight, 65 pounds.

Price \$12 00

DEPOT TOBACCO TRUCK.**Plate 819.**

For handling hogsheads of tobacco, casks of queensware, etc. The platform being only 7 inches above floor at rear end, and 14 inches in front, casks are easily "tipped" onto truck. Platform, 2 inch ash, $32\frac{1}{2}$ inches long, 18 inches wide. Two curved iron cross bands, $\frac{3}{8} \times 3$ inches, with four sharp cone head bolts in each, which hold casks in place. Wheels are extra heavy, 10 inches in diameter, 3 inch face. Wrought Iron Fifth Wheel, 11 inches in diameter. Iron Handle, U shaped at Axle, and attached by heavy bolt. Weight, 160 pounds.

Price \$25 00

BAR IRON TRUCK.**Plate 820.**

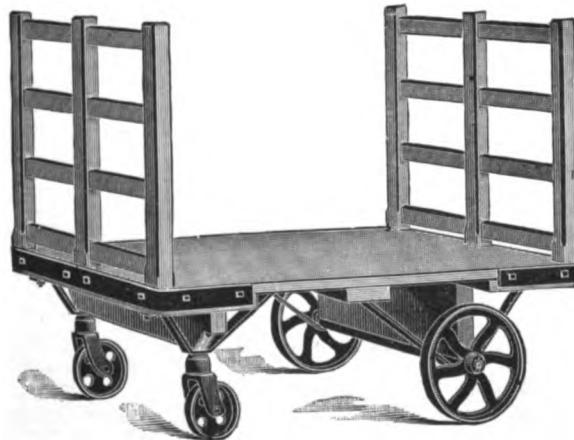
A very heavy, strong, and durable Truck. Platform, $25\frac{1}{2}$ inches wide by 63 inches long. Four Steel Pins, attached by chains. Iron Handle extends 59 inches in front of platform. Truck stands on platform scale 3 feet square. With Wrought Staggered Spoke Wheels, 3×20 inches, with extra 3 inch Wrought Iron Tire. Weight, 350 pounds.

Price \$50 00

COAL TRUCK.**Plate 821.**

Capacity, half ton. Box, length at bottom, 4 feet; over all, 5 feet; width at bottom, 2 feet; at top, 2½ feet; depth inside, 2 feet. All of 1½ oak. 4 Iron Straps (1¼ x ½) entire length on bottom, fastened by screws, extending up and bent over at both ends, and four inside braces (1 x ¼) bolted through sides and bottom. Iron Strapped (1½ x ½) all around top edge. Handles ⅝ inch round iron, bolted on. All bolts inside box are countersunk. Wheels, 11¾ inches in diameter; 2 inch face. Castor Wheels, 6 x 1⅜ inches. Iron Axle, 1⅜ inches square. Box painted brown outside, unpainted inside. Iron parts blacked. Weight, 325 pounds.

Price \$35 00

WAREHOUSE TRUCK.**Plate 822.**

Platform, 3 x 4 feet. Removable Wooden End Racks. Wheels, 12 inches in diameter by 2 inch face. For handling seed and grain in bags and for general use in seed warehouses. A light and handy Truck. Weight, 150 pounds.

Price \$34 00

LIGHT BAGGAGE BARROW.

SLOPING BACK PATTERN—COVERED TOP.

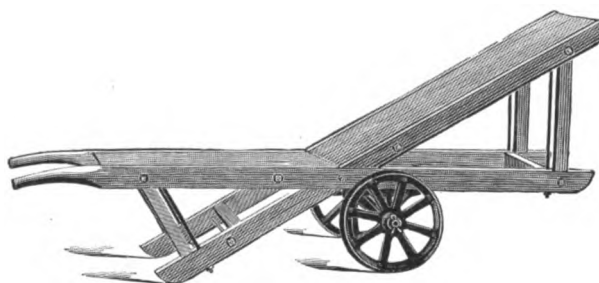


Plate 823.

A cheap and handy Barrow for use at small stations. Frame, best seasoned ash or oak; length 7 feet; width, 2 feet. Not ironed on top. Painted green and varnished. Cast Iron Wheels, 14 inches diameter, 2½ inch face. Axle, 1¼ inch round iron, 3 feet long. All iron parts painted black. Weight, 200 pounds.

Price \$25 00

ONE WHEEL BAGGAGE BARROW.

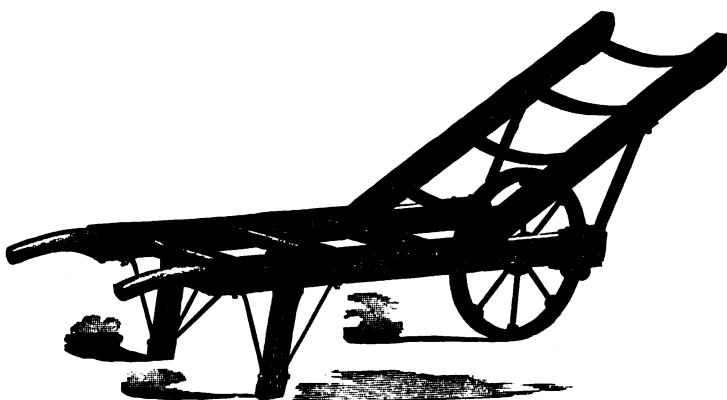
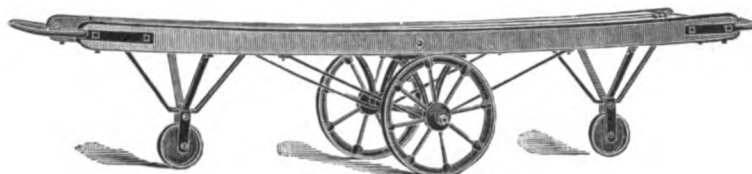


Plate 824.

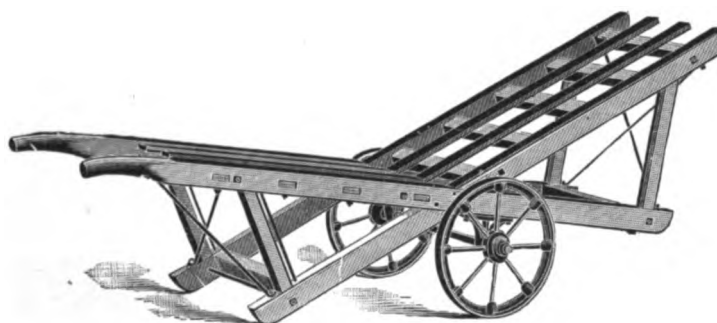
Sloping Back style. Full ironed on top. Dash has four Curved Iron Cross Bars. Length, 7 feet 10½ inches; width, 21½ inches; height at legs, 16 inches; height at top of dash, 39 inches; Improved Staggered Spoke Wheel, 22 inches diameter, 2 inch face, fastened solid to Axle, which is 1¼ inch round iron. Barrow painted dark green, striped and varnished. Weight, 200 pounds.

Price \$18 00

BAGGAGE BARROWS.**Plate 825.**

Curved Pattern. Improved Staggered Wrought Spoke Wheels. Painted Vermilion. Iron Blacked

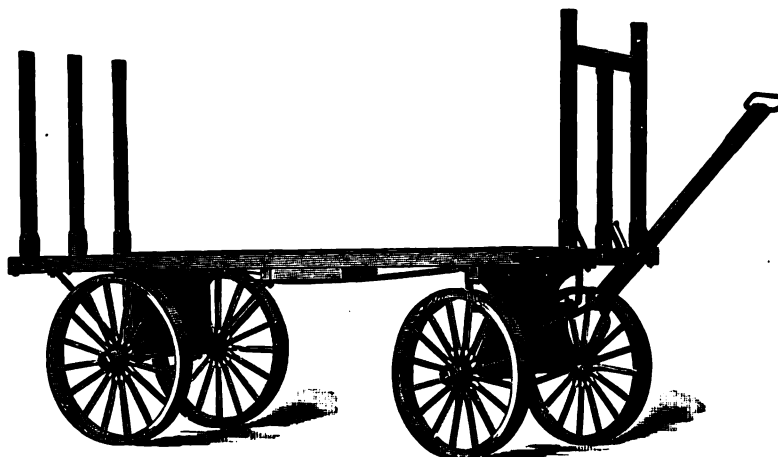
	Length	Width	Wheel	Weight	Price
No. 1	8 ft.	24 in.	20 x 2 in.	345 lbs.	\$40 00
No. 2	10 ft.	27 in.	20 x 2 in.	356 lbs.	45 00
No. 3	13 ft.	29 in.	20 x 2 in.	425 lbs.	55 00

**Plate 826.**

Sloping Back Pattern. Improved Staggered Wrought Spoke Wheels. Painted Green. Iron Blacked

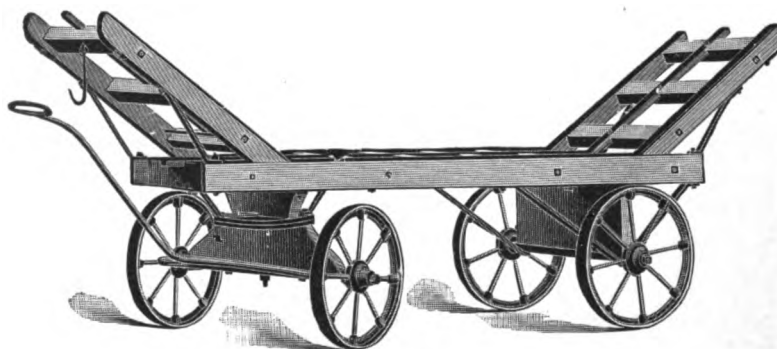
	Length	Width	Wheel	Weight	Price
No. 1	7 ft.	24 in.	17½ x 2 in.	217 lbs.	\$33 00
No. 2	9 ft.	27 in.	20 x 2 in.	303 lbs.	40 00
No. 3	10 ft.	30 in.	20 x 2 in.	340 lbs.	55 00

All Wheels used on these Barrows are bored true to centre, and Axles turned as carefully as a buggy axle.

EXPRESS AND BAGGAGE WAGONS.**IMPROVED PATTERN.****EXPRESS WAGON WITH SARVEN PATENT WOOD WHEELS.****Plate 827.**

Also furnished with "K. J." Wood or American Pattern Iron Wheels, when so ordered. Wrought Iron Fifth Wheel, 20 inches in diameter. Front Wheels, 28 inches in diameter; Rear Wheels, 31 inches in diameter. Platform, 10 feet long, 40 inches wide, 35 inches high. Weight, 670 pounds. Price \$100 00

These Wagons are of new and improved pattern. All material carefully selected. Thoroughly ironed and braced. Wheels bored and Axles turned. Well finished, and painted vermilion and green and striped and varnished. Extra strong and durable. Baggage Wagons furnished with "Sarven Patent" or "K. J." Wood Wheels, when desired.

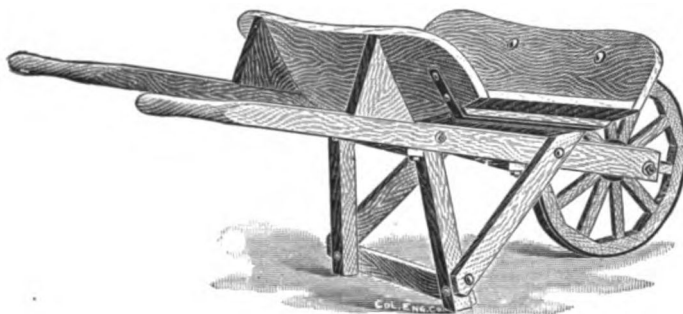
BAGGAGE WAGON WITH IMPROVED STAGGERED WROUGHT SPOKE WHEELS.**Plate 828.**

Wrought Iron Fifth Wheel, 20 inches in diameter.

Front Wheels, 20 inches in diameter; Rear Wheels, 22 inches in diameter.

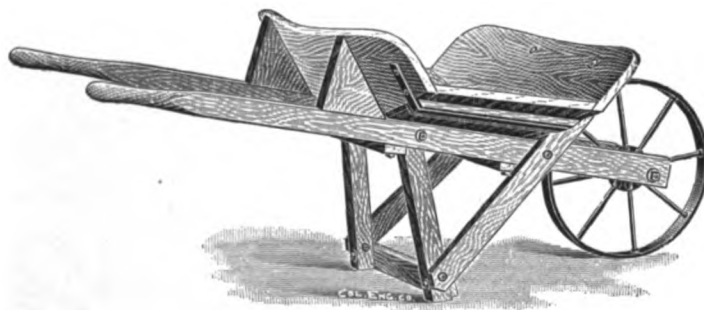
No. 1, 7 feet long, 26 inches wide; Dash, 28 inches long	\$70 00
No. 2, 10 feet long, 27 inches wide; Dash, 35 inches long	80 00
No. 3, 12 feet long, 32 inches wide; Dash, 44 inches long	90 00

Weight—No. 1, 475 pounds; No. 2, 600 pounds; No. 3, 725 pounds.

SCIOTO RAILROAD OR CANAL BARROW.**WITH JACOBS' PATENT No. 2 WOOD WHEEL UNPAINTED.****Plate 829.**

A thoroughly first-class bolted Barrow. Diameter of Wheel, 17 inches; tire $\frac{1}{4}$ x $1\frac{1}{8}$ inches; Spokes, $\frac{7}{8}$ x 1 inch; $\frac{1}{2}$ inch axle bolt. Unpainted. Full Sized Bent Tray, well planed, cleated, braced and bolted, as shown in cut. Legs and Cross-pieces gained, Leg Braces extending beyond the Handles, forming braces for the Tray, and bolted to it. Knocks down completely for shipping, and is easily set up. Weight per dozen, 576 lbs.

Price per dozen, Wood Wheel \$24 00

SCIOTO RAILROAD OR CANAL BARROW.**WITH No. 13-X LEWIS STEEL SPOKE WHEEL.****Plate 830.**

Same as above, except furnished with No. 13-X Lewis Steel Spoke Wheel. Diameter of Wheel, 16 $\frac{1}{2}$ inches; Spokes, $\frac{3}{8}$ inch round; Tire, $1\frac{3}{8}$ x $\frac{3}{8}$ inch; $\frac{1}{2}$ inch axle bolt. Painted black. Weight per dozen, 594 lbs.

Price per dozen, Lewis Steel Wheel \$27 00

JACOB'S BOLTED RAILROAD OR CANAL BARROW.

WITH WOOD WHEEL—PAINTED.

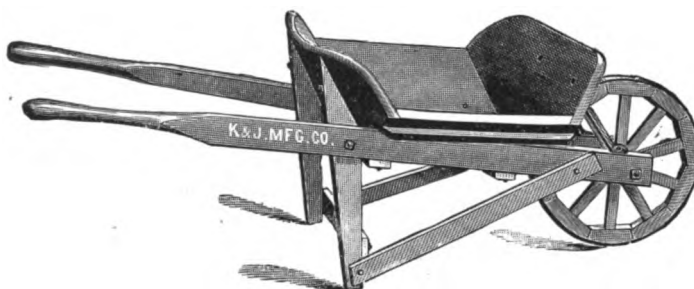


Plate 831.

Diameter of wheel, 17 inches; tire, $1\frac{3}{8}$ x $1\frac{1}{8}$ inches; spokes, $\frac{7}{8}$ x 1 inch; $\frac{1}{2}$ inch axle bolt. Full-sized bent tray, planed, cleated and strapped together, and well finished. Bolted securely to frame. The legs extend upward, serving as a brace to the bowl, to which they are bolted. They are also bolted to handles. This Barrow has all the merits of other Bolted Barrows, and, in addition has the Jacob's Patent Wheel, superior in every way to any wood wheel manufactured. The Wheel revolves on a fixed axle bolt, $\frac{1}{2}$ inch in diameter, similar to a buggy wheel, and runs true and evenly. The axle bolt holds the Barrow firmly together. The Barrow for railroad contractors. Will out-wear any other made, and displaces all others wherever introduced. Knocks down completely for shipping, and is easily set up. Weight, 50 lbs.

Wood Wheel, per doz. \$25 00

JACOB'S RAILROAD OR CANAL BARROW.

WITH STEEL SPOKE WHEEL.

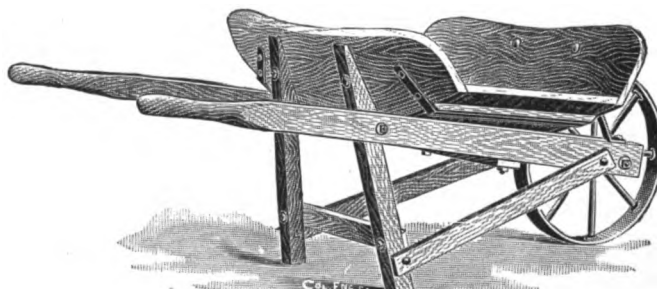
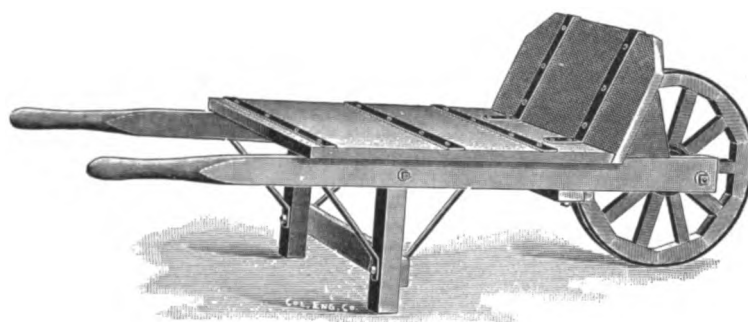


Plate 832.

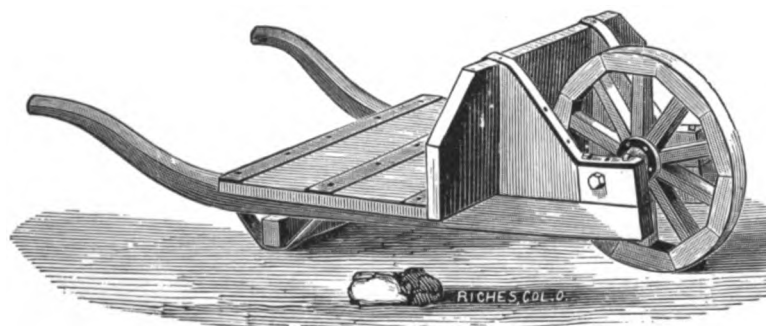
Same as above, but Steel Wheel. Diameter of wheel, $16\frac{1}{2}$ inches; wrought iron tire, $1\frac{3}{8}$ inches wide, $\frac{3}{8}$ inch thick; steel spokes, $\frac{5}{8}$ x $\frac{1}{4}$ inch; hub, 6 inches long, $\frac{1}{2}$ inch bore. Weight, 55 lbs.

Steel Wheel, per doz \$28 00

STRAIGHT HANDLE STONE BARROW.**WITH JACOBS' PATENT WHEEL.****Plate 833.**

For stone or pig metal. This is a strong, well made Barrow, iron strapped over the bottom, and well bolted together. The Iron Straps are now put on crosswise. Handles, 6 feet long; legs, 12 inches long; bottom, $1\frac{1}{4}$ inches thick by 23 inches wide by 27 inches long; dash, 10 inches high; wheel, 17 inches diameter; tire, $1\frac{3}{4} \times 1\frac{1}{8}$ inches; spokes, $1 \times 1\frac{1}{4}$ inches; axle bolt, $\frac{5}{8}$ inch; painted dark red; wheel lead color; weight, 64 pounds.

Per dozen, Wood Wheel	\$46 50
Per dozen, Steel Wheel	50 00

BENT HANDLE STONE BARROW.**WITH JACOBS' PATENT WHEEL.****Plate 834.**

Bent handles; thoroughly bolted; well ironed. We guarantee it to give satisfaction. Handles, 6 feet long; cross piece at legs, 2×3 inches; bottom, $1\frac{1}{4}$ inches thick by 26 inches wide by 27 inches long; dash, 11 inches high; wheel, 17 inches diameter; tire, $1\frac{3}{4} \times 1\frac{1}{8}$ inches; spokes, $1 \times 1\frac{1}{4}$ inches; axle bolt, $\frac{5}{8}$ inch; painted dark red; wheel lead color; Weight, 72 pounds. Either of the above Barrows furnished with Lewis or Jacobs' Patent Steel Spoke Wheel, when so ordered, $16\frac{1}{2}$ inches diameter; tire, $1\frac{3}{4} \times \frac{3}{8}$ inches.

Per dozen, Wood Wheel	\$56 00
Per dozen, Steel Wheel	58 00

STEEL BOTTOM STONE BARROW.

WITH PATENT STEEL-SPOKE WHEEL,

FOR STONE OR PIG METAL.

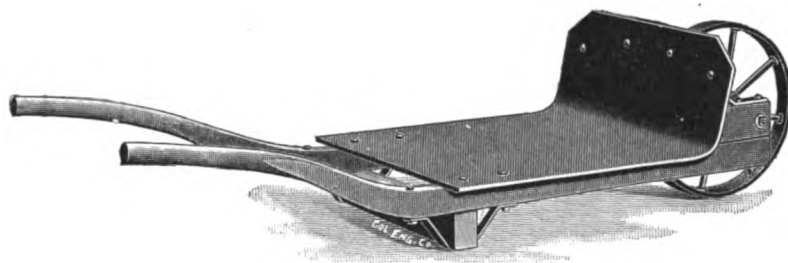


Plate 835.

The strongest and best Stone Barrow manufactured. Bottom and dash formed of one plate of steel, $\frac{1}{4}$ inch thick, 26 inches wide by 27 inches long; dash, 9 inches high; handles, 2 x 3 inches, 6 feet long; wheel, $16\frac{1}{2}$ inches in diameter; tire, $1\frac{3}{4}$ x $\frac{3}{8}$ inches, and painted black. Weight, 100 lbs.

Each \$9 00

TUBULAR PIG METAL BARROW.

WITH PATENT STEEL WHEEL.



Plate 836.

Bottom made of $\frac{1}{4}$ inch steel, 22 inches wide at handles by 25 inches long; dash, 20 inches wide at top and 14 inches high; side straps, $\frac{3}{8}$ x $1\frac{3}{8}$ inch iron; wheels, $16\frac{1}{2}$ inches diameter; tire, $1\frac{3}{4}$ x $\frac{3}{8}$ inches. Weight of Barrow, 110 lbs.

Each \$18 00

THE PAN-AMERICAN STEEL TRAY BARROWS.

WITH LEWIS ROUND STEEL SPOKE WHEEL.

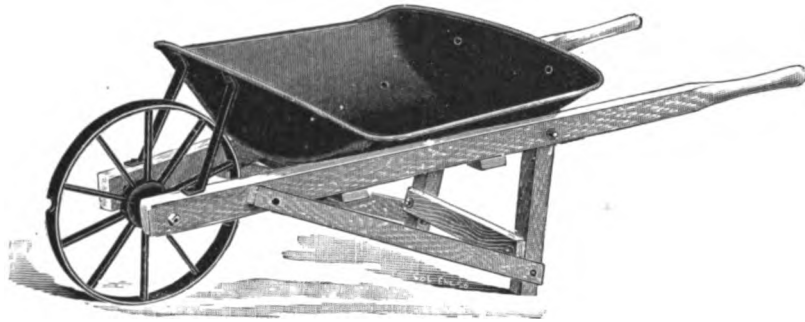


Plate 837.

Specially designed for the export trade—Steel vs. Wood—the wood tray must go. The most substantial, cheapest, and best Steel Tray Barrow yet manufactured. Specially adapted for heavy work. No. 13X Lewis Steel Wheel, 16½ inches diameter; Tire, 1⅜ x ⅜ inches; steel spokes, ⅜ inch round.

WITH JACOBS' PATENT WOOD WHEEL.

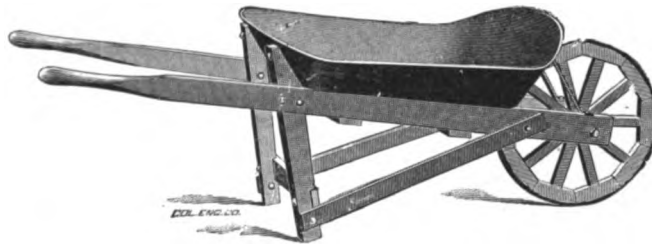


Plate 838.

The Tray of No. 15 best Steel, pressed from a single sheet, without joint, seam or rivet. Stronger and more durable than riveted iron trays of same thickness. The flange of Tray is turned over a ½ steel rod, which passes entirely around the Tray, giving a smooth finish to the edge of the Bowl, preventing breaking, and stiffening and strengthening it. Size of Tray, greatest length, 32 inches; greatest width, 33 inches; depth at Wheel end, 11 inches; depth at Handle end, 7½ inches. The Wheels are so constructed, having the Spokes tightened from the center, that it is impossible for Tires to come off or Spokes to be loosened. These Wheels revolve on a fixed Shaft or Axle Bolt, similar to a buggy wheel, and run true and evenly, and the Axle Shaft serves as a brace to the Handles. Wood Wheels, 17 inches diameter; Tire, 1⅜ x ⅜ inches.

Each, with Steel Wheel	\$7 00
Each, with Wood Wheel.	6 00

COLUMBUS STEEL TRAY WHEELBARROWS.

WITH LEWIS OR JACOBS' PATENT WHEEL.

No. 1.



Plate 839.

For earth, sand, ore, cinders and foundry use.

Wheel, $16\frac{1}{2}$ inches diameter; Tire, $1\frac{3}{8} \times \frac{3}{8}$ inches.

Tray of No. 15 Steel; flange turned over a $\frac{1}{4}$ inch steel rod, passing entirely around the Tray, giving a smooth finish to the edge, preventing breaking, and stiffening and strengthening the Tray.

Tray and Wheel painted black; Frame, brown.

No. 1. Greatest width of Tray, $28\frac{1}{2}$ inches; greatest length, $32\frac{1}{2}$ inches; greatest depth, 7 inches. Capacity, 3 cubic feet. Weight, complete, 57 lbs.

No. 2. Greatest width of Tray, $28\frac{1}{2}$ inches; greatest length, 36 inches; greatest depth, $8\frac{1}{2}$ inches. Capacity, 4 cubic feet. Weight, complete, 58 lbs.

No. 2.

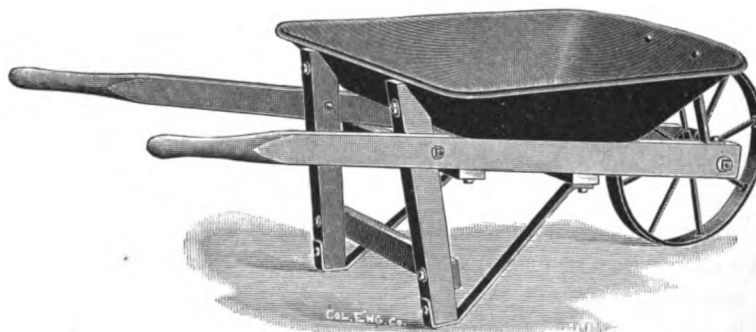


Plate 840.

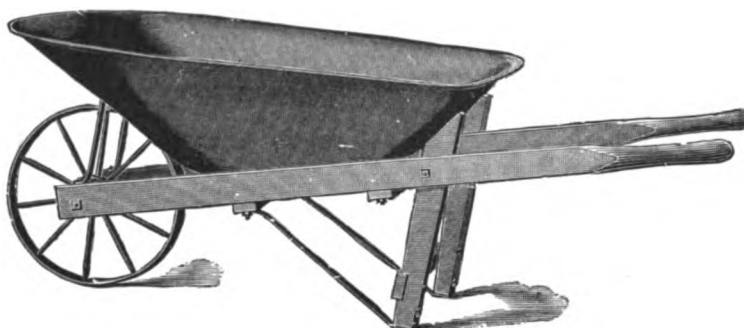
For coal, manure, cinders, ashes, etc.

Each, No. 1, with Steel Wheel	\$7 00
Each, No. 2, with Steel Wheel	8 75

COLUMBUS STEEL TRAY BARROW.

WITH PATENT STEEL WHEEL.

No. 3. COAL OR COKE BARROW.

**Plate 841.**

Tray of No. 15 steel. Capacity, 400 to 450 lbs. coal, or $3\frac{1}{2}$ bushels coke or charcoal, or 6 cubic feet of earth. Greatest width of tray, 33 inches; greatest length, 42 inches; greatest depth, $11\frac{1}{2}$ inches. Bottom, 19 inches long, 18 inches wide at handle and 14 inches wide at wheel. Wheel, $16\frac{1}{2}$ inches diameter; tire, $1\frac{3}{8} \times \frac{3}{8}$ inches. Tray and wheel painted black; frame, brown. Weight, 65 lbs.

Each \$10 50

COLUMBUS TUBULAR STEEL WHEELBARROW.

STEEL DIRT BARROW.

**Plate 842.**

The No. 14 Lewis Steel Wheels used with these Barrows are $16\frac{1}{2}$ inches in diameter, with iron tire $1\frac{1}{2} \times \frac{3}{8}$ inches, and steel spokes $\frac{1}{2}$ inch round. These Barrows are intended for moving earth, sand, gravel, mortar, etc. For the heaviest work in mines, quarries, etc., we recommend our Tubular Mining or General Purpose Steel Barrows shown on another page.

No. 4, Tray made of No. 15 steel, capacity 3 cubic feet of earth, suitable for light work, as carrying loose earth, sand, etc.; weight of Barrow, 70 lbs., each \$10 75
 No. $4\frac{1}{2}$, Tray made of No. 14 steel, capacity 3 cubic feet of earth; weight of Barrow, 75 lbs., each . 11 50
 No. 5, Tray made of No. 14 steel, capacity 4 cubic feet of earth; weight of Barrow, 78 lbs., each . . 13 50

COLUMBUS TUBULAR STEEL WHEELBARROWS.

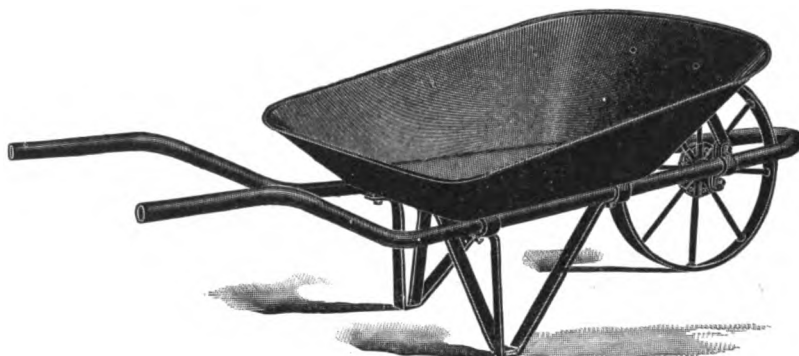


Plate 843.

The No. 15 Lewis Steel Wheels with which these Barrows are furnished are 16½ inches in diameter, with Iron Tire 1¾ x ¾ inches, and Steel Spoke ½ inch round, and extra heavy Malleable Iron Hubs. These Barrows have extra heavy leg braces, are intended for hard usage, and are the best general purpose all-metal Barrows manufactured.

	Tray	Capacity	Weight	Price, each
No. 6	No. 14 Steel	3 feet	80 lbs.	\$12 25
No. 7	No. 14 Steel	4 feet	87 lbs.	14 25
No. 8	No. 12 Steel	3 feet	90 lbs.	14 00
No. 9	No. 12 Steel	4 feet	97 lbs.	16 00

COAL AND COKE BARROW.

WITH NO. 15 LEWIS ROUND STEEL SPOKE WHEEL.

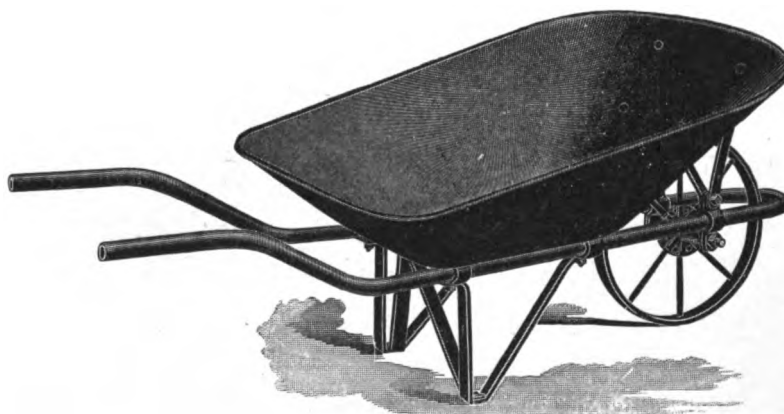
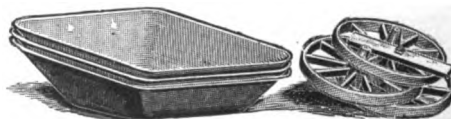


Plate 844.

	Tray	Capacity	Weight	Price, each
No. 10.	No. 13 Steel	350 lbs. Coal	112 lbs.	\$20 00
No. 12.	No. 15 Steel	3½ bu. Coke	100 lbs.	18 50



Packed for Shipment.



STEEL MINING CARS.

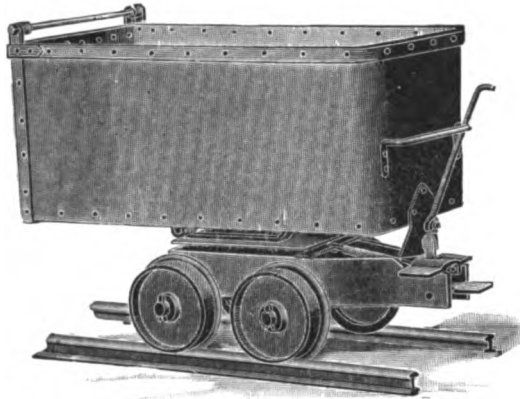
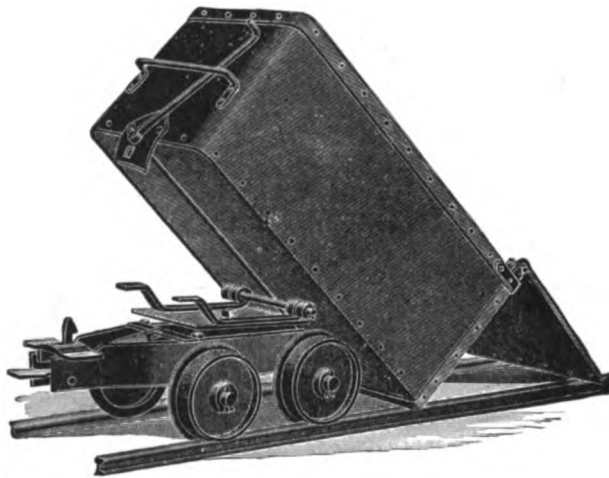


Plate 845.

CUT SHOWING CAR DUMPING AT END.



Great care is exercised in the construction of our Mining Cars, and the best possible results are obtained by a proper distribution of the weight. The Beds are made of the very best quality of sheet steel; Wheels are cast iron, supplied with Self-oiling, Dust-proof Caps, and all other parts are made of forged steel and iron. The Beds are so hinged that the load can be dumped at either side or end, as desired. Built to run on 18 to 24 inch track. In ordering, be careful to state the gauge of your track. We can build Cars of any required capacity or style, and estimates will be promptly furnished upon application. The following are standard sizes: No. 1, Bed 44 inches long, 24 inches wide, 21 inches deep; sides of Box made of No. 14 steel; Bottom and Door, No. 12 steel; Wheels, 10 inch diameter; Axles, $1\frac{1}{4}$ inch round; capacity, 12 cubic feet; weight, 380 pounds.

Price on application.

ROTARY DUMP STEEL CARS.

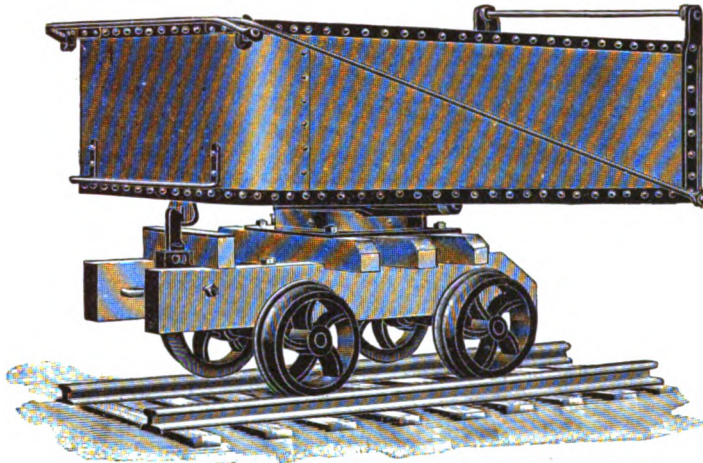
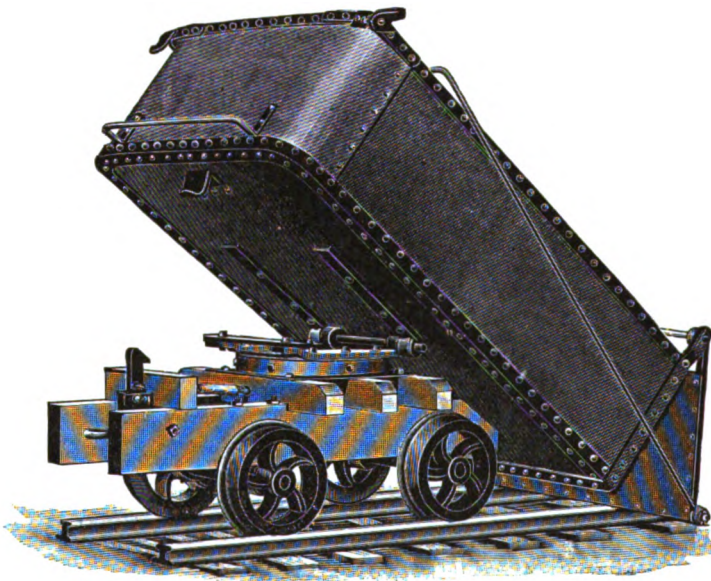


Plate 846.

CUT SHOWING CAR DUMPING AT END.



We make them with Box of any size or capacity desired. The Car here illustrated is of the following dimensions:

Box 72 inches long, 46 inches wide, 22 inches deep, of No. 8 U. S. Gauge Steel Plate; Steel Angles around bottom at front end and sides, 4 x 4 x 1/4 inches, and rivets 3/8 x 3/4 inch. The capacity of this size box is 42 cubic feet. This Car is made for track 23 inches gauge. We make any gauge desired. The End Gauge is hinged at top, and has an iron ball, secured at bottom, which extends diagonally to the opposite upper corners of box, and there engages with an eccentric-locking device, which holds the End Gate firmly in place until released for dumping. This Locking Device is our own design, very simple and automatic in action. After the load is dumped, the Box is brought back to a level position, when the End Gate will close automatically and lock itself, ready for reloading, as shown above. The Wheels are 14 inches diameter, shrunk solid on 2 inch round Steel Axles, which revolve in Cast Iron Bearing Boxes. Weight of this Car is 1,400 pounds. These Improved Cars are improved, in that they are made with our Improved Rotating Device, or Turntable. It consists of two steel plates, one of which rests upon the cross-sills of the Car, and the other attached to hinges on the bottom of the Box. Between these plates is a pair of Annular Rings, similar to a large Fifth Wheel in an ordinary wagon. Between the two Fifth Wheels are six Steel Rollers, 1 1/4 inch diameter, which are held in position by two Steel Rings—one of which is inside, and the other outside of the Fifth Wheel. In turning the Box of Car, the Rollers revolve and the Fifth Wheel turns easily upon them, preventing any friction, and the heaviest load is easily dumped on either side or end of Car. We are the exclusive manufacturers of Cars with Roller Bearing Rotating Device or Turntable, and such Cars are without question the easiest to operate, wear longer, and give better satisfaction in general than any other Cars. These Cars are provided, when so ordered, with Draw Bars, Coupling Links and Pins. When used for Sand, we make these Cars with Steel Broom Track Sweeping Attachment, at one or both ends, as desired. Prices on application.

STANDARD RAILWAY SECTION OR HAND CAR.

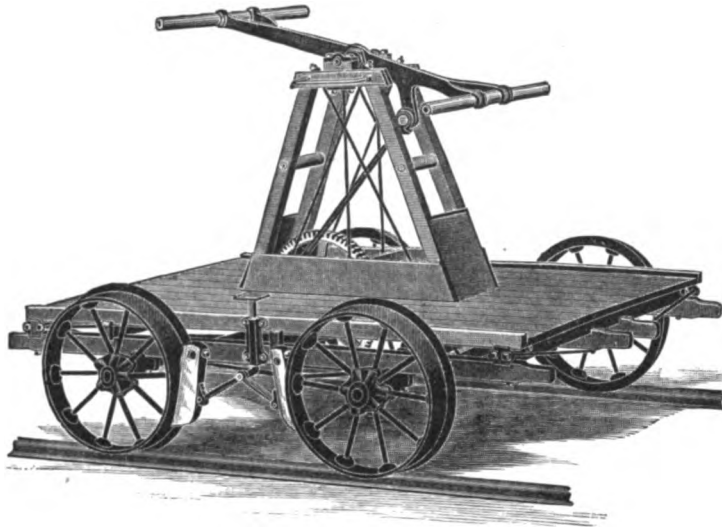


Plate 847.

Very easy running. Strong, durable, light. This is the Standard Hand Car for section service on all leading lines of railways in this country. Platform, 6 feet long by 4 feet 4 inches wide, of best hard wood, well bolted together, and painted venetian red. Improved Adjustable Iron Walking Beam and no dead centre. Staggered Wrought Spoke Wheels, 20 inches diameter, keyed tight on Steel Axles $1\frac{1}{2}$ inches diameter, latter turning in Iron Boxes having Brass Bearings. Weight complete, 520 lbs.

Price \$70 00

YARD PUSH CARS.

FOR YARD TRACKS IN LARGE FACTORIES, LUMBER YARDS, ETC.

FOR LIGHT T TRACK, 30-INCH GAUGE.

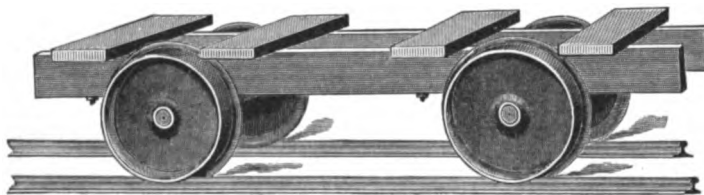


Plate 848.

These Cars are well built, light and strong, and will carry a very heavy load. Designed principally for use on yard tracks in large factories, for handling lumber, iron or other material, conveying completed stock from shop to warehouse, etc. Sills, 7 feet long by $3\frac{1}{4}$ inches wide by $5\frac{1}{2}$ inches deep. Cross Pieces, $3\frac{1}{2}$ feet long by 2 inches thick by $6\frac{3}{4}$ inches wide. Steel Axle, $2\frac{1}{4}$ inches round. Axle Boxing, 4 x 9 inches, outside. Wheels, 18 inches in diameter, $4\frac{1}{2}$ inch face, $3\frac{3}{4}$ inch tread. These are best gray castings, and are shrunk on Axle. Height from track to top of Cross Pieces, 18 inches. Weight, 625 lbs.

Price on application.

RAILWAY PUSH CARS.

STANDARD GAUGE.

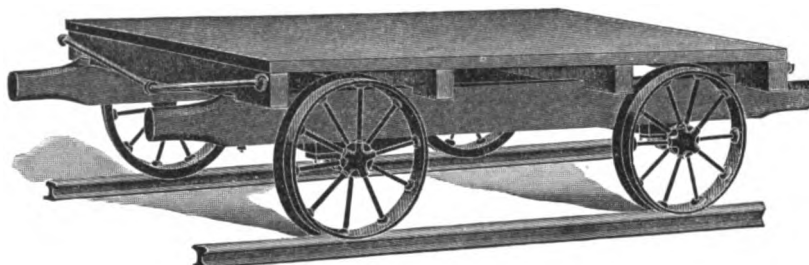


Plate 849.

Strong! Durable! Easy Running! This Car is designed for carrying Ties, Rails, and other material along the line of railways in course of construction, and for repair work on old roads. For track 4 feet 8½ inch gauge.

Platform of oak timber, 7 feet long by 5 feet 7½ inches wide. Two heavy sills that project as handles at ends, and four cross-sills, heavy in proportion. Trussed crosswise at both ends. All well bolted together.

Wheels, 20 inches diameter by 3½ inches tread on rail. The Wheels are made with cast-iron rim and hub and have steel spokes ⅞ inch round. Weight, 70 lbs. each.

The wood parts of car are painted metallic brown or venetian red, as preferred, and all metal parts black. Weight, 850 lbs. Price, \$35.00.

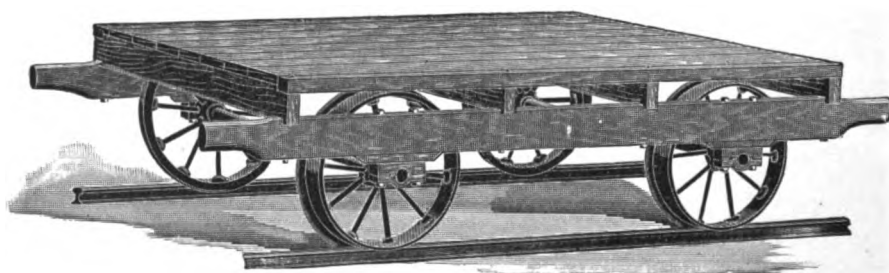


Plate 850.

NARROW GAUGE CAR.

This is made as above described, except that the platform is only 5 feet in width, and the axle-bearings are outside of the wheels. Weight, 750 lbs. Price, \$30.00.

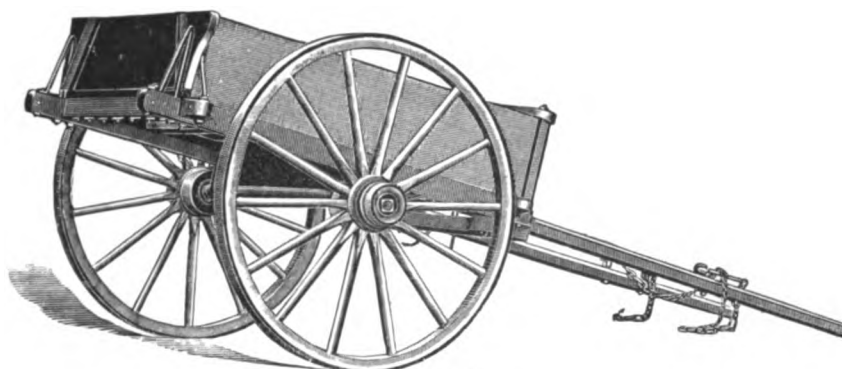
CONTRACTORS' ROCK CART.

Plate 851.

Strong, substantial, durable. Made throughout of hardwood, strongly bolted and braced. Specially adapted for the hardest usage, in hauling rock, gravel, clay, and other heavy material. Parts easily replaced when worn out.

Bed, size of inside, 66 inches long, 44 inches wide, 14 inches deep; wheels, 54 inches diameter; hubs, 9 inches diameter, 12 inches long; spokes, fourteen $2\frac{1}{2}$ inch best second-growth oak; tires, $3 \times \frac{1}{2}$ inch; steel axle, $2\frac{1}{4}$ inches square; spindle $2\frac{1}{4} \times 10$ inches; wood axle bed, $3\frac{1}{4} \times 8$ inches; shafts, oak or ash, $2\frac{3}{4} \times 3\frac{1}{4}$ inches, with heavy cross-bar, $2\frac{1}{2} \times 8$ inches. Supplied with necessary chains and hooks as in cut. The bed has two heavy sills, $2\frac{3}{4} \times 4$ inches, with heavy cross-piece, $2\frac{3}{4} \times 3$ inches at rear end. The sides, ends and bottom are all $1\frac{3}{8}$ inches thick. The front end board has cross-piece on top, $1\frac{3}{4} \times 4$ inches, bolted down through the sills, and these bolts firmly bind together the front end of the bed. There are also four heavy anchor bolts inside on each side board, firmly securing them to the side sills, and the side boards have heavy iron straps along the upper edges. The rear ends of sides and the tail gate have heavy iron braces; the Cart is painted venetian red; the wheels are set to standard wide track, 5 feet 2 inches. Weight, 800 lbs. Capacity, 24 cubic feet.

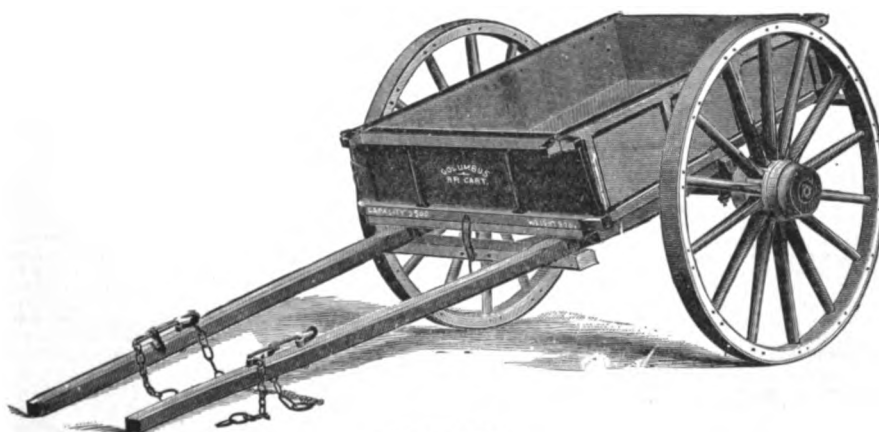
COLUMBUS RAILROAD DUMP CART.

Plate 852.

These Carts are especially adapted for contractors. Panel bed, made entirely of hard wood, well bolted together, ironed at rear end, and well braced.

Steel axle, $2\frac{1}{4}$ inches square; skein boxes, $2\frac{1}{4} \times 10$ inches; heavy wood hub wheels, 56 inches in diameter; tire, $3\frac{1}{2} \times \frac{1}{2}$ inches; hub, 10 inches diameter by 12 inches long; 14 spokes; dimensions of bed—length, 5 feet 6 inches; width, 3 feet 7 inches; depth—rear, 12 inches; front, 15 inches; all measurements are inside. The panel rails are $1\frac{3}{4} \times 2$ inches; bottom board, $1\frac{3}{4}$ inches thick; sides and ends, $\frac{3}{4}$ inch thick; the shafts are 6 feet 8 inches long and extra strong, being firmly braced and bolted together; they are hinged to axle bolster, which is 4×5 inches, by U bolts, and are quickly detached for shipment or storage. The tail gate has our own pattern latch or fastener, simple and easily operated. Our price includes all necessary chains and hooks, as shown in illustration. Painted steel blue, striped and varnished. Weight, 800 lbs. Capacity, 22 cubic feet, or 3,500 lbs.

MAMMOTH HARD-PAN RAILROAD PLOW.

FOR USE WITH HORSE OR STEAM POWER, FOR HEAVY WORK, HARD-PAN AND ROCK.

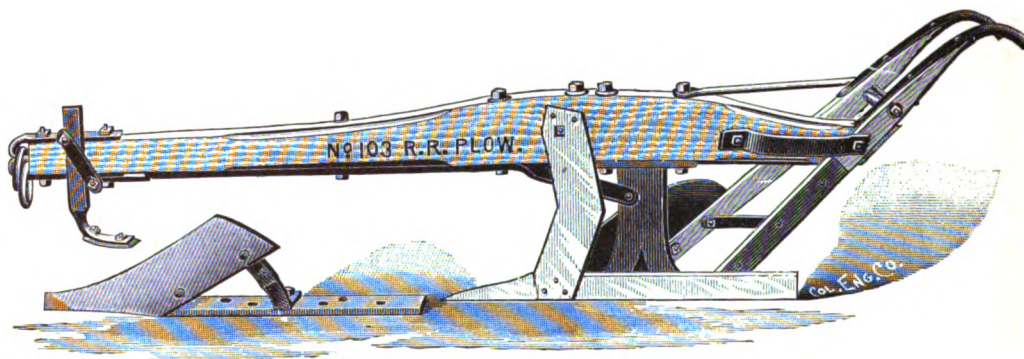


Plate 853.

It cuts a 9 inch furrow, 6 to 12 inches deep, and will plow anything. Beam very strong, 7 feet long and $8\frac{1}{2} \times 7$ inches at standard, heavy in proportion, and ironed heavily on top and sides. Draft rod, $2 \times \frac{3}{8}$ inches. Handles of oak, ironed on top and bottom with $1\frac{1}{4} \times \frac{1}{2}$ inch bars; also plated with iron on sides. Handhold solid iron and well braced. The standard, mould board and landside of cast steel of best quality, and point extra quality wrought steel, and very heavy. Extra points are charged extra. No. 2 left hand. No. 12 right hand. Weight, 325 lbs.

Price \$75 00

No. 3 OR 13 RAILROAD OR GRADING PLOWS.

IRON HAND-HOLD AND HANDLES IRONED.

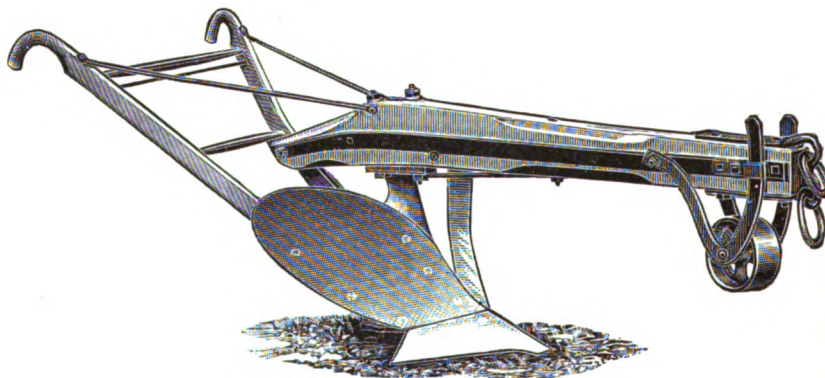


Plate 854.

SEE OUT BELOW.

The beam is the toughest butt cut white oak, carefully selected: length, 7 feet, and $3\frac{1}{4} \times 7$ inches at standard. Handles braced. The standard is of wrought iron V shaped, secured to beam by two strong bolts, and will not twist or break. The strongest standard known. The point, landside, mould board, and coulter are of the very best wrought steel. It has an adjustable gauge wheel, $3 \times 6\frac{1}{4}$ inches. The beam is heavily ironed on both sides, with heavy iron strap underneath, extending from standard to clevis, and securely bolted to both. Now made with wrought iron clevis, having two strong rings, as shown in cut. The extra long handles give the holder perfect control. Owing to the peculiar shape of the mould board—our own patent—these Plows can be drawn easily by two horses, but are strong enough for six or eight, and they will scour where no other Plows will. This Plow is made to cut a deep rather than a wide furrow, and can be regulated to any depth required. It does not turn the soil over, but loosens it, leaving the trash on top, so that it will not interfere with the Scraper when filling. Extra points are charged extra. Also furnished with heavy steel gauge shoe, in place of gauge wheel (see cut below) when so ordered. No. 3 left hand. Weight, 200 lbs. No. 13 right hand. Weight, 200 lbs.

Price, for No. 3 or 13 \$30 00

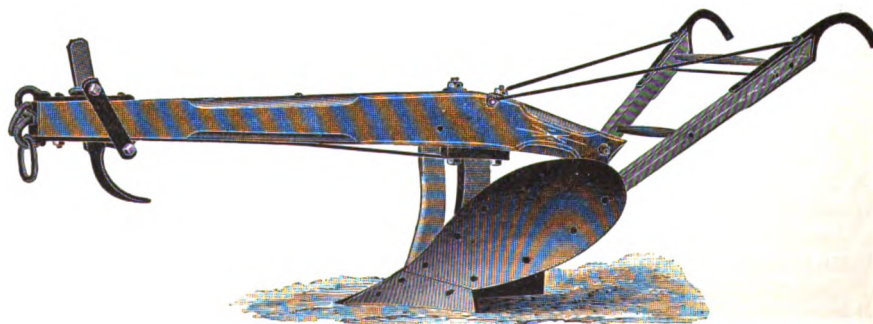


Plate 855.

SURFACE GRADER.

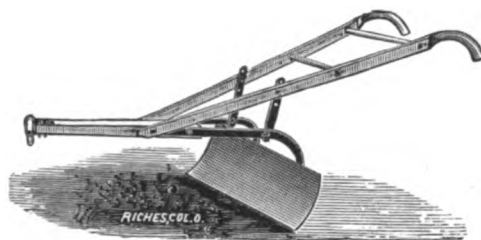


Plate 856.

This is intended for one horse only, and is used for removing the plowed ground from the sides of the road to the road-bed immediately opposite. It is worked by either backing the horse up to the place of filling or by crossing over from side to side, the driver retaining his load until the proper place is reached, or gradually losing it from beneath, as he may wish.

It is also of great service in grading and leveling off after the Scraper, leaving the road-bed level or rounded up, as desired. The beam is made of oak wood, and two substantial wrought iron standards, as shown in cut above. It is light, but strong and durable.

Steel blade, $\frac{1}{4}$ inch thick, 15 inches wide and 30 inches long. Weight, 60 lbs.

Price \$9 00

ROAD LEVELER.

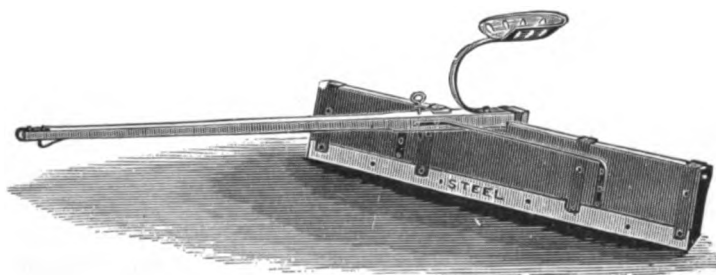


Plate 857.

For smoothing rough roads of any kind, dirt or gravel. Unsurpassed for use on turnpikes. It is largely used in the spring when the frost is first out of the ground, and before the regular road work is done. By merely driving once or twice over the roughest roads, the ridges are cut down, the ruts filled up, and the road-bed put in temporary good order. It will pay for its cost in one day's use.

Steel Blade, $\frac{1}{4}$ inch thick by 4 x 72 inches and Stamped Steel Seat. Weight, 150 lbs.

Price \$12 00

THE MOHAWK SOLID STEEL DRAG SCRAPER.

SCRAPER WITHOUT RUNNERS.

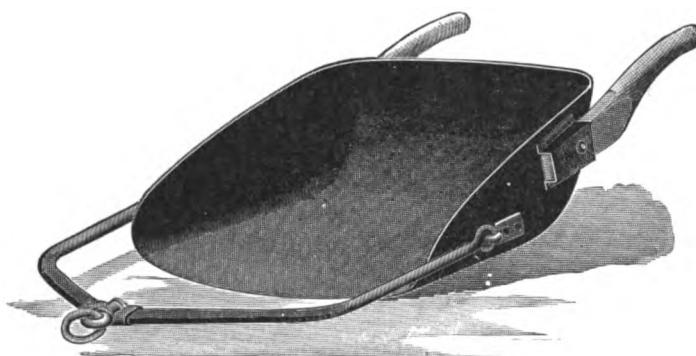


Plate 858.

SCRAPER WITH RUNNERS.

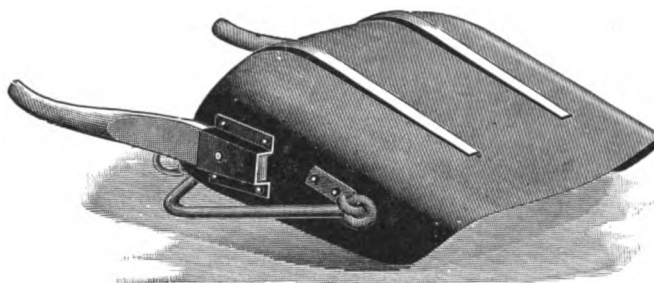
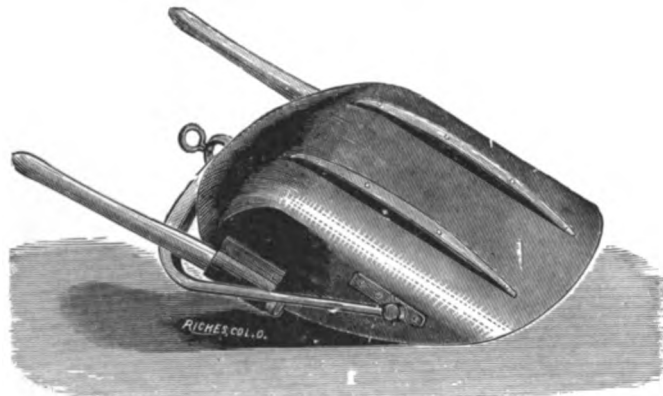


Plate 859.

Best and cheapest Scraper in the market.

These Scrapers are made from heavy plates, of specially hardened steel, and are stamped from one sheet without joint, seam or rivet. They are superior to any other Drag Scraper upon the market, the Columbus Solid Steel Scraper alone excepted. The bowl being made of thicker and harder steel, enables it to scour where no other scraper will; and owing to the sharp, rounded nose, it will enter the ground more readily than any other make of Scraper. The Bails are Steel, with perfect working Swivels, and Handles of hard wood. We will guarantee this Scraper in every particular. Made in three sizes.

No. 1. Capacity, 7 cubic feet, each	\$10 00
No. 2. Capacity, 5 cubic feet, each	9 00
No. 3. Capacity, 3½ cubic feet, each	8 00
With Steel Runners, each extra	1 00
With Steel Bottom Plate, each extra	1 50

COLUMBUS SOLID STEEL SCRAPERS.**SCRAPER WITHOUT RUNNERS.****Plate 860.****SCRAPER WITH RUNNERS.****Plate 861.**

Improved in that we now make the Scraper longer and deeper, so that while it carries more earth, at the same time it runs much easier, and has more wearing surface. The perfect Scraper, made of a single sheet of steel, pressed into the best and most practicable shape for working. It is made with one continuous curve from the center up the sides and back, giving it greater strength and capacity than can be obtained in any other way. It is without joint or seam, and there is not a sharp corner, angle, bolt, brace or stay-rod about the Scraper. It will work in any kind of soil, whether plowed or not, and enters the ground as readily as a plow. We guarantee it to fill easier and clean better than any other Scraper, and it will scour where no other Scraper will. It is not injured by exposure to the weather, and there is nothing about it to get out of repair. Suits any climate. The handles will commend themselves to every one, as they can, if broken, be easily replaced anywhere. Bails of steel, and of improved pattern, with strong and perfect working swivels. The best bails ever put on Scrapers. The entire bowl of the Scraper is made of one sheet of heavy steel, and is the only one so made. All other Scrapers represented as made of one sheet of steel have the old wood back, with sharp corners and stay-rods, bolts and braces, which are constantly getting out of repair, or riveted backs, which are worse. It is the lightest, strongest, and most durable, and will displace all others wherever it is known.

No. 1 carries 7 feet of earth	\$15 00
No. 2 carries 5 feet of earth	14 00
No. 3 carries 3 feet of earth	13 00
With Runners, extra, per Scraper.	1 00
With Steel Bottom Plate, extra, per Scraper	1 50

THE K. & J. No. 1 PRESSED BOWL WHEEL SCRAPER.

WITH K. & J. IMPROVED WHEELS.

PRESSED BOWL SCRAPER IN CARRYING POSITION.

(Patented November 4, 1879; September 8, 1885; October 5, 1886.)

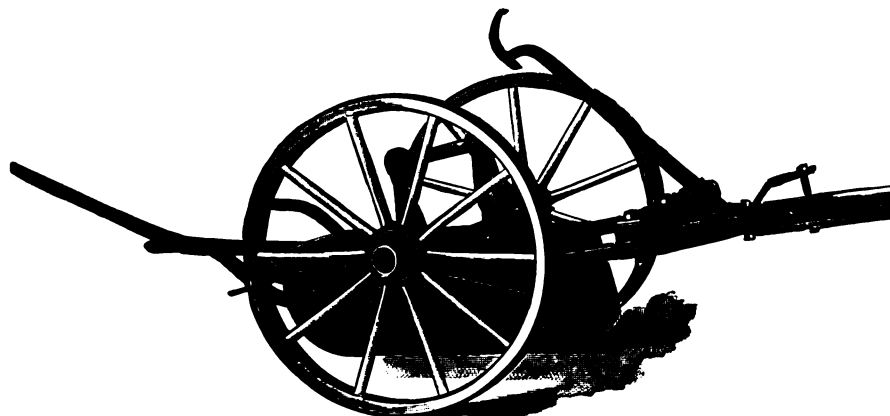


Plate 862.

WITH END GATE IN CARRYING POSITION.

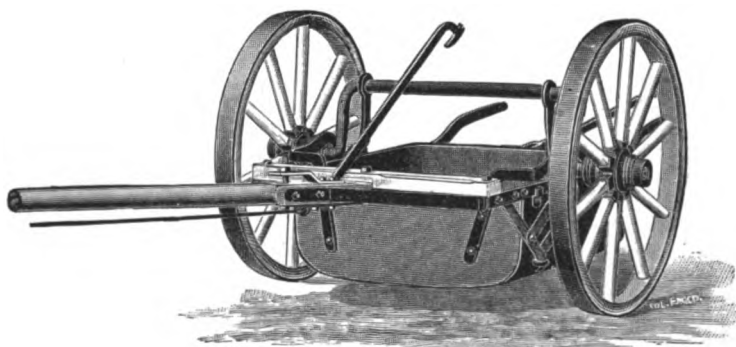


Plate 863.

This Wheel Scraper has our new Patent Automatic Lock Hooks, independent Steel Axle, Bifurcated Compound Lever, Steel Bowl and Improved K. & J. Iron Hub Wheels.

It is built after the model of the celebrated K. & J. Contractors' Wheel Scrapers, and we will guarantee it to be not only stronger and more durable than any other Wheelers manufactured, but also much easier for both man and team in operating.

This Improved Scraper is so constructed that it does away with all of the objectionable features of other Wheelers, and cannot fail to give entire satisfaction.

DESCRIPTION—The Bowl, which is the hardest and best steel, is 34 inches long by 34 inches wide by 11½ inches deep. Capacity, 9 cubic feet level full, but will carry an average load of 10 cubic feet. Gauge of track, 4 feet 2 inches. We furnish either Pressed Bowls or Square Boxes, as ordered. Square Bowl Scraper weighs 300 lbs. Pressed Bowl Scraper weighs 381 lbs. K. & J. Heavy Hardened Iron Hub Wheels, 34 inches in diameter; tire, 3 inches wide.

N. B.—We do not furnish End Gates, Neck Yokes, or Whiffletrees unless especially ordered, and they are charged extra.

No. 1, K. & J., with Pressed Bowl	\$45 00
No. 1, K. & J., with Square Bowl	42 00

THE NEW K. & J. SQUARE BOX WHEEL SCRAPERS.

WITH SARVEN PATENT WHEELS.

IN CARRYING POSITION.

(Patented September 8, 1885, and October 5, 1886.)

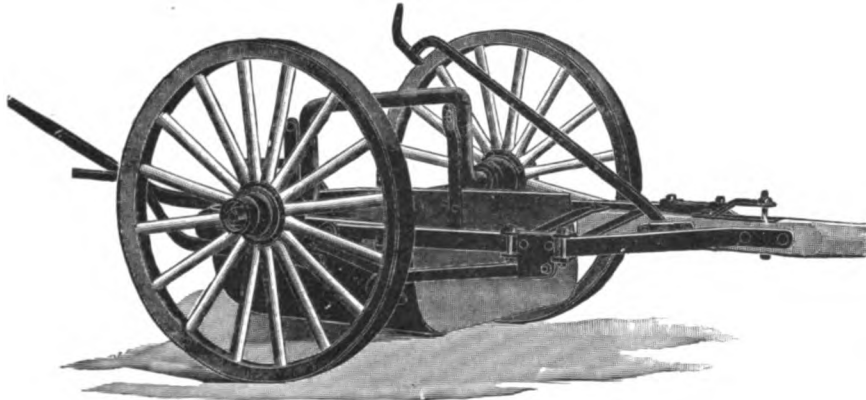


Plate 864.

The bowl, or box, is made of the best steel plate, $\frac{3}{8}$ of an inch thick. The Axle, Tongue Braces or Bail, Cross-Truss, Lever and Hangers are all of the best steel. These Scrapers have no castings to break, no rackets to clog up, and fewer nuts to come off, and parts to get out of order, than any other Wheel Scraper. They are so constructed that the team does most of the lifting, and one man can fill, raise and dump the largest size with ease. They are so hung that there is absolutely no strain whatever on the horses' necks.

No. 2. Capacity, 12 cubic feet. With Sarven Patent or Improved K. & J. wood wheels, 40 inches diameter; tire, $3\frac{1}{2} \times \frac{1}{4}$ inches; size of box—length, 36 inches; width, 38 inches; depth, $13\frac{1}{2}$ inches—all inside measurement; gauge of track, 4 feet 7 inches. Weight, 605 lbs.

Price \$50 00

No. 3. Capacity, 16 cubic feet. With Sarven Patent or Improved K. & J. wood wheels, 46 inches diameter; tire, $3\frac{1}{2} \times \frac{1}{4}$ inches; size of box—length, 42 inches; width, 42 inches; depth, 16 inches—all inside measurement; gauge of track, 5 feet 2 inches. Weight, 755 lbs.

Price \$55 00

No. 3 has Draft-Rod for Snatch-team.

AUTOMATIC FRONT END GATE.

FOR K. & J. WHEEL SCRAPERS ONLY.



Plate 865.

This Attachment is highly recommended by contractors wherever used. This is the only End Gate Attachment ever successfully applied to Wheel Scrapers. It is automatic in action, simple in construction, cannot get out of order, and can be easily attached or detached in two minutes. The end Gate is bolted to the uprights or hangers on side of Scraper with two bolts. In ordering Wheel Scrapers, please state whether they are wanted with or without End Gates. The price is \$5.00 extra. When Scraper is lowered to fill, the Axle-arms raise the End Gate up, and when Scraper is loaded and lifted into carrying position, the Gate falls with its own weight, closing the front of Scraper, and thus preventing the contents of bowl from sliding out. When Scrapers are working on long or down hill hauls, or in gravelly or buckshot material, it will save from three to four feet every load.

THE NEW K. & J. PRESSED BOWL WHEEL SCRAPERS.
WITH SARVEN PATENT WHEELS.
IN CARRYING POSITION.

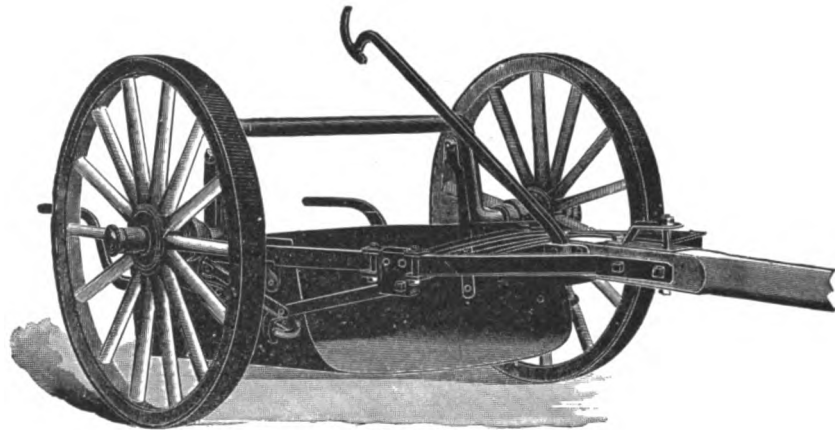


Plate 866.

ON THE ROAD.

(Patented November 4, 1879, September 8, 1885, and October 5, 1886.)

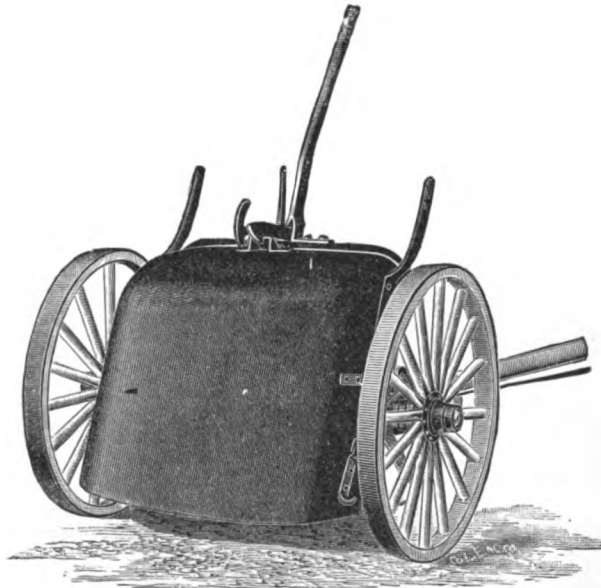


Plate 867.

The bottoms of all pressed bowl Scrapers are oil tempered. The largest sized Scraper, capacity, 17 cubic feet, is easily operated by one man. No strain on horses' necks.

No. 2. Capacity, 13 cubic feet; wheels, 40 inches in diameter; tire, $3\frac{1}{2} \times \frac{1}{4}$ inches; size of bowl—length, 36 inches; width, 38 inches; depth, 14 inches; all inside measurement; tracks, 4 feet, 7 inches. Weight, 600 lbs.

Price \$55 00

No. 3. Capacity, 17 cubic feet; wheels, 46 inches in diameter; tire, $3\frac{1}{2} \times \frac{1}{4}$ inches; size of bowl—length, 42 inches; width, 42 inches; depth, 16 inches; all inside measurement; tracks, 5 feet 2 inches. Weight, 744 lbs.

Price \$60 00

No. 3 has Draft-Rod. No. 2 sent with Draft-Rod only when specially ordered. The Sarven Patent Wood Wheels used on these Scrapers are much superior to the old style wooden hub wheels with which other wheel scrapers are made, being more durable and running easier. Whiffletrees and Neck-yokes are never furnished with Wheel Scrapers, unless specially ordered, and are always charged extra.